mapbox

#9 Live Location Platform

Mapbox

- *Mapbox* is a live location platform, that let developers build their application, powered by location data with real-time updates. Total customization.

- More informations:

  https://www.mapbox.com/

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#1 Install Mapbox on React Native

- **First, create a React Native application:**

  `$ react-native init namaProjek`

- **Install Mapbox package on your project:**

  `$ cd namaProjek`
  `$ npm i @mapbox/react-native-mapbox-gl`

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- **Go to android/build.gradle then insert jetpack repo on allprojects repo:**

```
allprojects {
    repositories {
        .....
        maven { url "https://jitpack.io" }
    }
}
```

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#3 Mapbox Dependency

- Go to **android/app/build.gradle** then insert mapbox react native dependencies:

```
dependencies {
    compile project(':mapbox-react-native-mapbox-gl')
}
```

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■ **Go to android/settings.gradle then insert these two lines below:**

```
include ':mapbox-react-native-mapbox-gl'

project(':mapbox-react-native-mapbox-gl')
.projectDir = new File(rootProject.projectDir,
'../node_modules/@mapbox/react-native-mapbox-
gl/android/rctmgl')
```

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#5 Main Application

■ Go to **MainApplication.java** file on **android/app/src/main/java/com/namaProjek /MainApplication.java** then insert lines below:

```java
import com.mapbox.rctmgl.RCTMGLPackage;
```

■ **Inside getPackages() insert:**

```java
protected List<ReactPackage> getPackages() {
    return Arrays.<ReactPackage>asList(
        new MainReactPackage(),
        new RCTMGLPackage()
    );
}
```

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#6 Mapbox Token

- **Signup/login to *mapbox.com* & get your access token! Access token also can be seen at your account page.**

Install the Maps SDK

Install beautiful interactive maps in your app or website.

iOS   Android   Web   Unity

Get your access token

Just looking for your access token? Here it is!

pk.eyJ1IjoibGludGFuZ3dpc2YSIsImEiOiJja...

Design a map style

Design a map style with your own data and visual appearance.

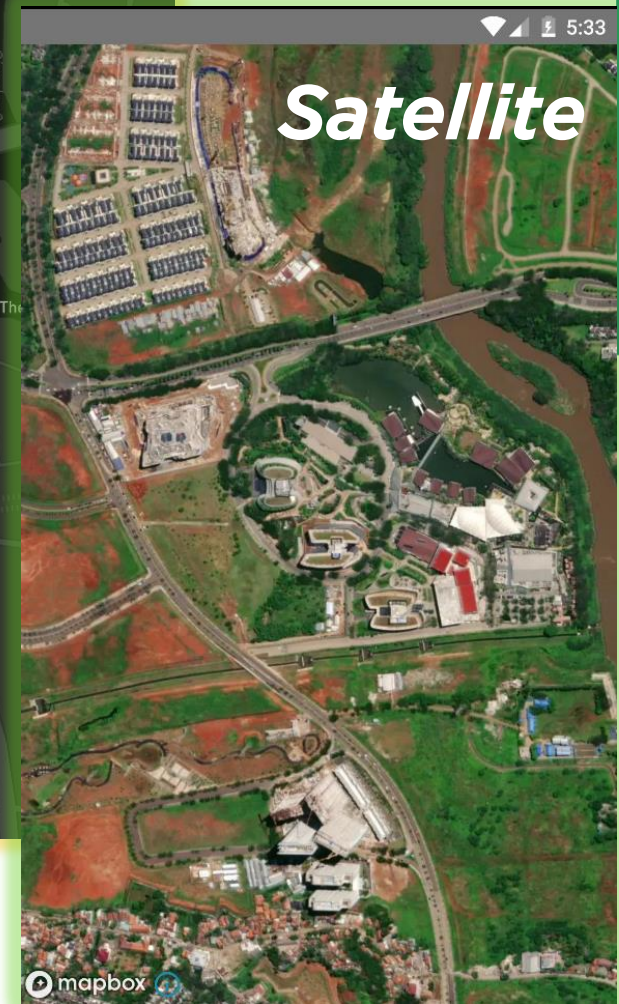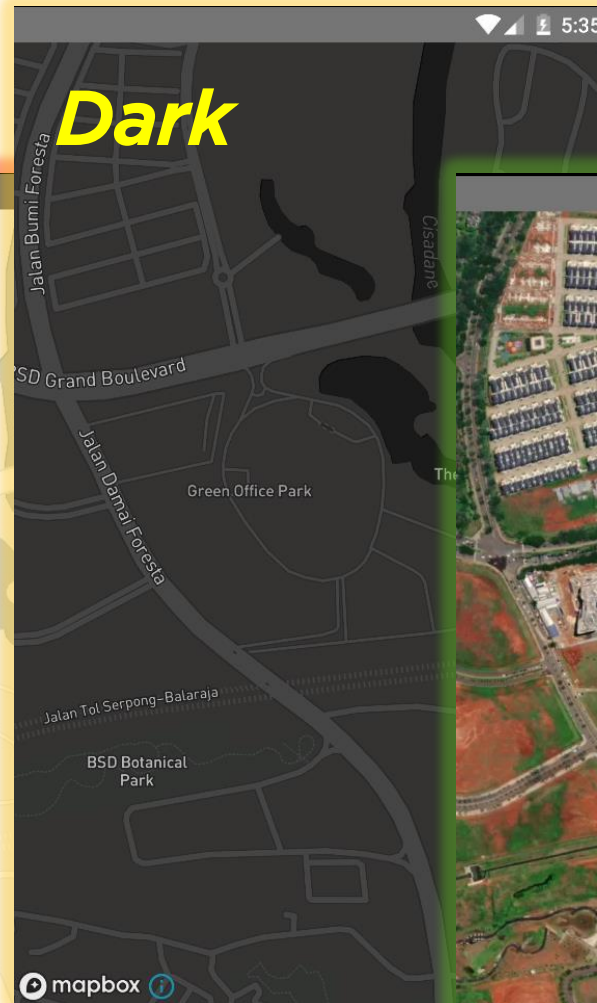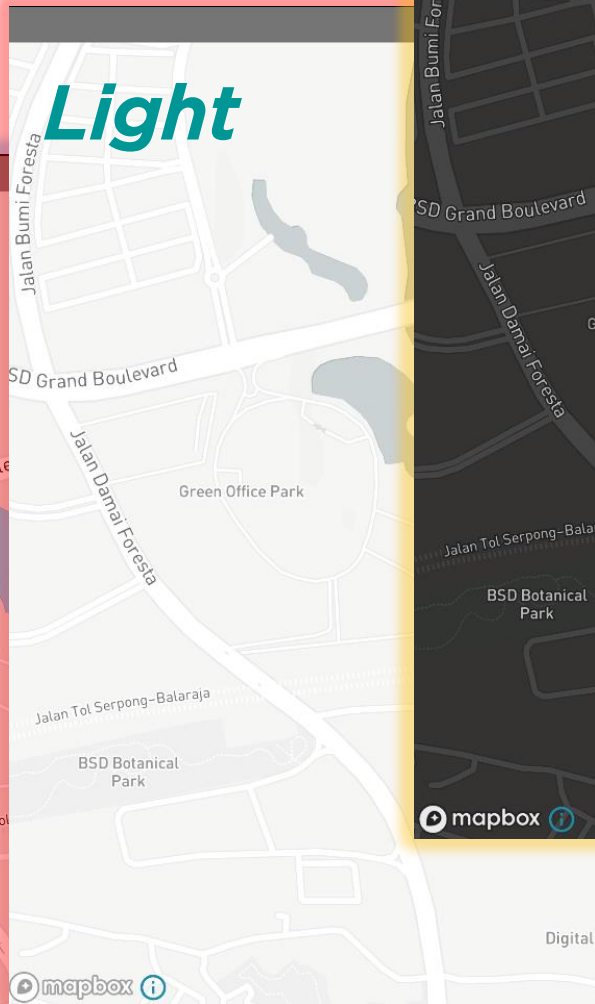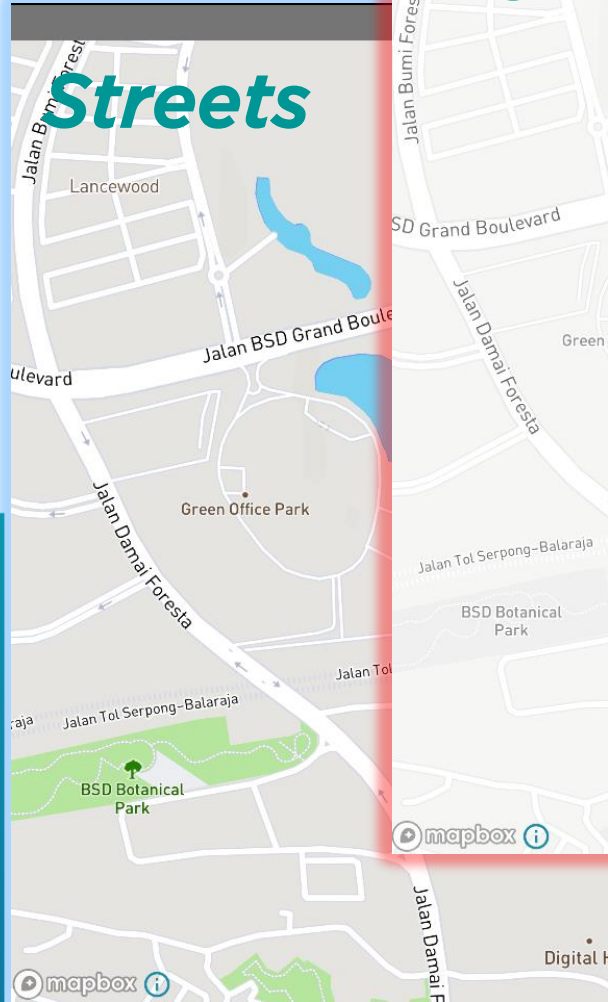Design a map style →

Develop Maps in our Apps

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```
import React, { Component } from 'react';
import { StyleSheet, View } from 'react-native';
import Mapbox from '@mapbox/react-native-mapbox-gl';
Mapbox.setAccessToken('insert_your_token');

export default class App extends Component{
  render() {
    return (
    <View style={styles.container}>
      <Mapbox.MapView
          styleURL={Mapbox.StyleURL.Streets}
          zoomLevel={15}
          centerCoordinate={[106.652,-6.302]} //long, lat
          style={styles.container}>
      </Mapbox.MapView>
    </View>
);}}

const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
});
```

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```javascript
import React, { Component } from 'react';
import { StyleSheet, View } from 'react-native';
import Mapbox from '@mapbox/react-native-mapbox-gl';
Mapbox.setAccessToken('insert_your_token');

export default class App extends Component{
  renderAnnotations() {
    return (
      <Mapbox.PointAnnotation
        key='pointAnnotation'
        id='pointAnnotation'
        coordinate={[106.652,-6.302]}>
        <View style={styles.annotationContainer}>
         <View style={styles.annotationFill} />
        </View>
        <Mapbox.Callout title='Aku di sini!' />
      </Mapbox.PointAnnotation>
    )
  }

  . . . . . .
```

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```
  render() {
   return (
   <View style={styles.container}>
      <Mapbox.MapView
         styleURL={Mapbox.StyleURL.Streets}
         zoomLevel={15}
         centerCoordinate={[106.652,-6.302]}
         style={styles.container}>
         {this.renderAnnotations()}
      </Mapbox.MapView>
   </View>
);}}
```

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```javascript
const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
  annotationContainer: {
    width: 30,
    height: 30,
    alignItems: 'center',
    justifyContent: 'center',
    backgroundColor: 'white',
    borderRadius: 15,
  },
  annotationFill: {
    width: 30,
    height: 30,
    borderRadius: 15,
    backgroundColor: 'orange',
    transform: [{ scale: 0.6 }],
  }
});
```

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